

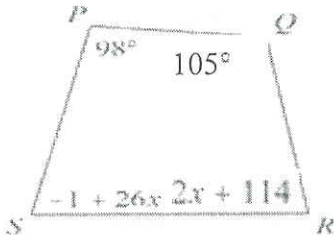
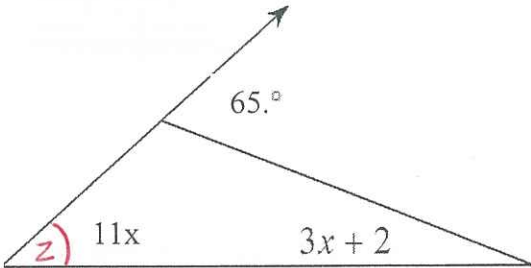
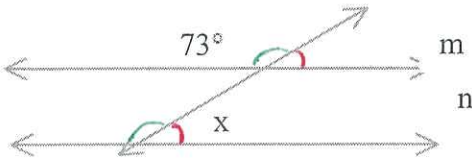
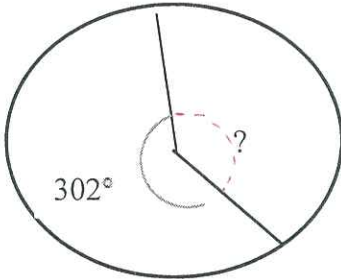
HW#35: Review - Quadratic Equations
Geometry
Due Date: Friday, November 9th, 2012

Name: _____ TP: _____

Failure to show work on all problems or use complete sentences will result in a LaSalle.

<p>1) Solve using square roots: $8x^2 - 8 = 280$</p>	<p>2) Solve using square roots: $(x + 9)^2 = 144$</p>	<p>3) The area of a circle is $84\pi \text{ in}^2$. What is the radius rounded to the nearest tenth? $A = \pi r^2$</p>
<p>4) Solve using the quadratic formula: $5p^2 - 9p - 126 = 0$ $\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ $a =$ $b =$ $c =$</p>		<p>5) Solve using the quadratic formula: $2n^2 + 2n = 18$</p>
<p>6) Solve using factoring. What is the sum of the solutions? $5m^2 + 13m - 6 = 0$ $\frac{5m}{m} \quad \frac{-}{+}$</p>	<p>7) Solve using factoring. What is the sum of the solutions? $3x^2 - 22x = -24$ ① set equal to 0 ② factor ③ solve twice</p>	
<p>Name the quadratic equation given the solution set.</p>		
<p>8) {1, 4} $(x-1)(x-4)$</p>	<p>9) {2, 10}</p>	<p>10) {-3, 2}</p>

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11) Which of the following does NOT have a solution of $x = 9$? $(x-9)(?)$ a. $x^2 - 10x + 9$ $(x-9)(x-1)$ b. $x^2 - 6x - 27$ $(x-9)(x+3)$ c. $x^2 - 81$ $(x-9)(x+9)$ d. $x^2 + 9x + 18$ $(x+3)(x+6)$ e. $x^2 - 7x - 18$ $(x-9)(x+2)$	12) $x = -4$ is the ONLY solution to which of the following quadratic equations? $(x+4)(x+4)$ a. $x^2 - 16$ b. $x^2 - 8x + 12$ c. $x^2 - 8x + 16$ d. $x^2 + 8x + 16$ e. Cannot be determined	13) What quadratic equation only has a solution of $x = 5$? $(x-5)(x-5)$
13) Find the measure of the given angle to the nearest hundredth. $m\angle R$ 	14) Find the measure of angle Z to the nearest hundredth. 	
15) Lines m and n are parallel. Find the measure of x 	16) Find the missing angle 	

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HW#34: Generate Quad. Eqt. Given Solutions
Geometry

Due Date: Friday, November 9th, 2012

Name: _____ TP: _____

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Name the quadratic equation given the solution set.

<p>1. $\{-8, 5\}$</p> <p>$(x+8)(x-5)$ $x^2 - 5x + 8x - 40$ $x^2 + 3x - 40$</p>	<p>2. $\{-3, 3\}$</p>	<p>3. $\{-5, -9\}$</p>
<p>4. Which of the following is the quadratic equation with solutions $x = 12$ and $x = -1$?</p> <p>$(x-12)(x+1)$</p> <p>a. $x^2 - 11x + 12$ b. $x^2 + 13x - 12$ c. $x^2 - 13x + 12$ d. $x^2 - 11x - 12$ e. $x^2 - 13x - 12$</p>	<p>5. What quadratic equation has a solution set of $x = 8$ and $x = -9$?</p>	<p>6. Which of the following quadratic equations have a solution set of $x = \{6, 7\}$?</p> <p>a. $x^2 - x - 42$ b. $x^2 - x + 42$ c. $x^2 - 13x - 42$ d. $x^2 + 13x + 42$ e. $x^2 - 13x + 42$</p>
<p>7. Use the quadratic formula to find the zeros of the function $n^2 - 28 = -3n$</p> <p>$n^2 + 3n - 28 = 0$</p> <p>$y = ax^2 + bx + c$ $\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$</p> <p>$a =$ $b =$ $c =$</p>	<p>8. Use the quadratic formula to find the roots of the function $a^2 = 108 - 3a$</p>	
<p>9. Find the roots of the equation by factoring:</p> <p>$11v = -3v^2 + 4$ $0 = -3v^2 - 11v + 4$ $\frac{3v}{v} \quad -$</p>	<p>10. Find the sum of the solutions of the equation by factoring:</p> <p>$-6 = -2x^2 - 11x$</p>	

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11. Solve the equation by taking square roots:

$$3n^2 - 4 = 188$$

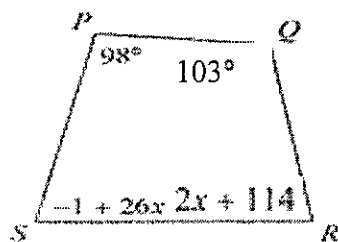
12. Solve the equation by taking square roots:

$$\frac{24}{3} = \frac{3(x^2 + 7)}{3}$$

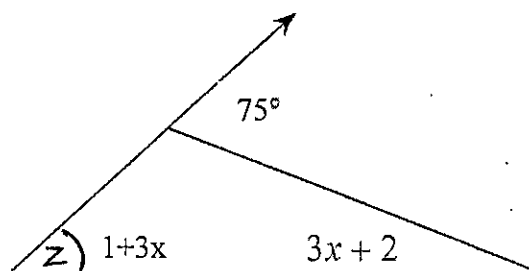
$$8 = x^2 + 7$$

13) Find the measure of the given angle to the nearest hundredth.

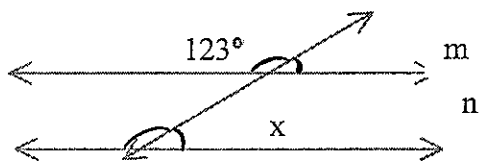
$m\angle R$



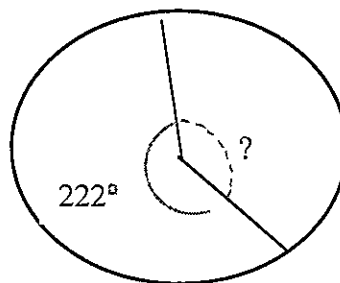
14) Find the measure of angle Z



15) Lines m and n are parallel. Find the measure of x



16) Find the missing angle



$$\frac{-b \pm \sqrt{b^2 - 4ac}}{2a} = \text{Quadratic Formula}$$

HW#33: Quadratic Formula
Geometry

Due Date: Thursday, Nov. 8th, 2012

Name: _____ TP: _____

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Use the quadratic formula to solve the equation. Round your solutions to the nearest hundredth, if necessary.

1. $x^2 + 7x - 80 = 0$

$ax^2 + bx + c = y$

$a = 1$

$b = 7$

$c = -80$

$$\frac{-7 \pm \sqrt{7^2 - 4(1)(-80)}}{2(1)}$$

$$\frac{-7 \pm \sqrt{49 + 320}}{2}$$

$$\frac{-7 \pm \sqrt{369}}{2} \Rightarrow \frac{-7 + 19.21}{2} \text{ and } \frac{-7 - 19.21}{2}$$

$x = 6.105$ and $x = -13.11$

2. $3x^2 - x - 16 = 0$

$ax^2 + bx + c$

$a =$

$b =$

$c =$

$$\frac{- \pm \sqrt{-^2 - 4(-)(-)}}{2(-)}$$

9. $4x^2 - x - 20 = 0$

$ax^2 + bx + c$

$a =$

$b =$

$c =$

10. $5x^2 + x - 9 = 0$

11) What is the sum of the roots of the function?

$g(x) = 3x^2 - 13x + 10$

$\frac{3x}{x}$

12) What is the sum of the zeros of the equation?

$4x^2 = x$

① set equal to 0

② factor

③ solve twice

PUSH IT TO THE LIMIT.

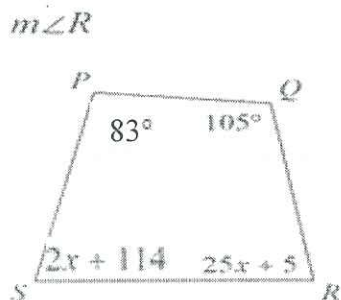
13) Find the solutions to the equations below:

4. $3x^2 - 60 = 87$
 $+60 \quad +60$
 $3x^2 = 147$

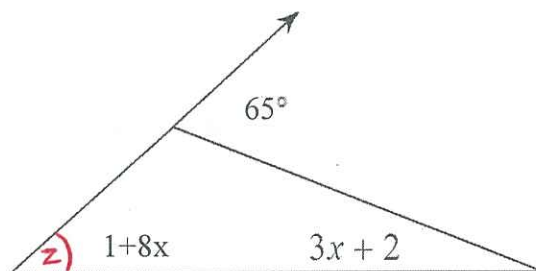
5. $2x^2 - 33 = 17$

6. $5x^2 - 200 = 205$

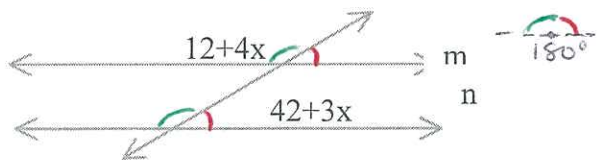
14) Find the measure of the given angle to the nearest hundredth



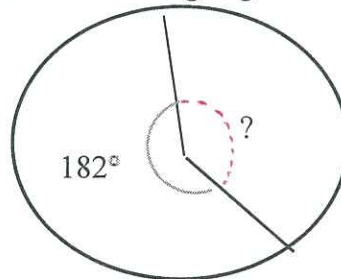
15) Find the measure of angle Z to the nearest hundredth



16) Lines m and n are parallel. Find the measure of x



17) Find the missing angle



Name: _____ TP: _____

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Solve the equation.

1. $6x^2 - 24 = 0$

2. $8x^2 - 128 = 0$

3. $x^2 - 13 = 23$

Solve the equation. Round the solutions to the nearest hundredth.

10. $x^2 + 15 = 23$

$-15 \quad -15$

$x^2 = 8$

$\sqrt{x^2} = \sqrt{8}$

$x \approx 2.83$

11. $x^2 - 16 = -13$

12. $12 - x^2 = 17$

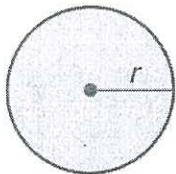
19. $(x - 3)^2 = 5$

20. $(x + 2)^2 = 10$

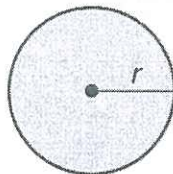
21. $3(x - 4)^2 = 18$

Use the given area A of the circle to find the radius r or the diameter d of the circle. Round the answer to the nearest hundredth, if necessary. $A = \pi r^2$

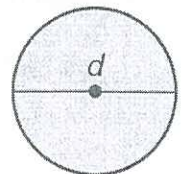
22. $A = 169\pi \text{ m}^2$
 $A = (r^2)\pi$



23. $A = 38\pi \text{ in.}^2$



24. $A = 45\pi \text{ cm}^2$



25) What is the **sum** of the **roots** of the equation?

$n^2 = 16 - 6n$

- ① equal to zero
- ② factor
- ③ solve twice

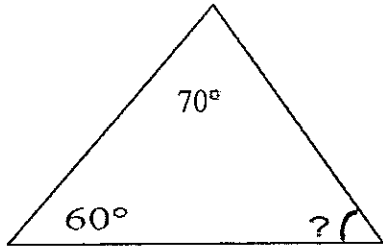
26) Find the **zeros** of the polynomial function: $f(x) = y$

$f(x) = -3x^2 - 14x + 24$

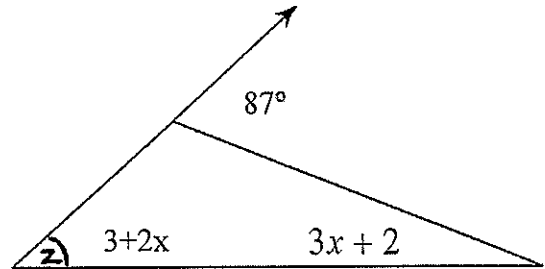
27) What is the **sum** of the **roots** of the equation? **see 25*

$x^2 = 4 + 3x$

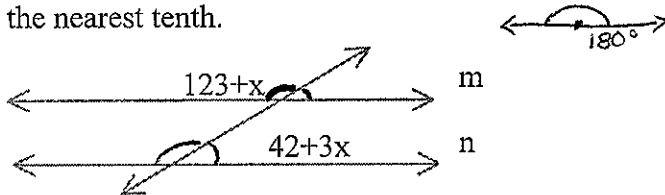
28) Find the measure of the missing angle.



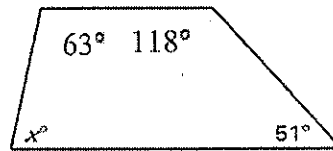
29) Find the measure of angle Z to the nearest tenth.



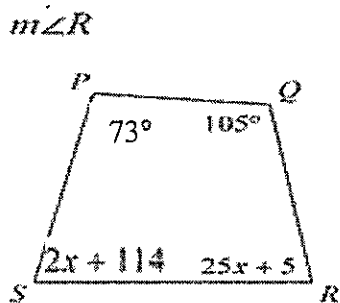
30) Lines m and n are parallel. Find the measure of x to the nearest tenth.



31) Find x.



32) Find the measure of the given angle to the nearest tenth.



33) Find the missing angle

